

Title (en)  
CONTACTING UNIT FOR ELECTRICALLY CONTACTING AT LEAST ONE ELECTRONICS SEGMENT OF AN ELECTRONICS MODULE AND METHOD

Title (de)  
KONTAKTIERUNGSEINHEIT ZUR ELEKTRISCHEN KONTAKTIERUNG VON MINDESTENS EINEM ELEKTRONIKSEGMENT EINES ELEKTRONIKMODULS UND VERFAHREN

Title (fr)  
UNITÉ DE MISE EN CONTACT POUR MISE EN CONTACT ÉLECTRIQUE D'AU MOINS UN SEGMENT D'ÉLECTRONIQUE D'UN MODULE ÉLECTRONIQUE ET PROCÉDÉ

Publication  
**EP 3499632 A1 20190619 (EN)**

Application  
**EP 18212171 A 20181213**

Priority  
DE 102017222883 A 20171215

Abstract (en)  
The present invention relates to a contacting unit (100) for electrically contacting at least one electronics segment (502) of an electronics module (500). The contacting unit comprises a module connector having a first terminal (102) and a second terminal (104) for connection to the electronics module, wherein the first terminal is connected to the second terminal via a connection conductor (106) in the direction of a main axis (110) of the contacting unit. Furthermore, the contacting unit comprises at least one segment connector having a first contact element (202) for contacting a first electrical terminal of the electronics segment, wherein the first contact element is connected to the connection conductor via a first contact conductor (206), which comprises a first bending region (210). Furthermore, the contacting unit comprises a flexible substrate (300) having a contact side (302), wherein the contact side comprises the module connector and the segment connector, and wherein an angle ( $\alpha$ ) between a first fold (310) of the flexible substrate, folded in the first bending region, and the main axis is oblique.

IPC 8 full level  
**H01M 10/42** (2006.01); **H01B 7/08** (2006.01); **H01M 10/48** (2006.01); **H01M 50/503** (2021.01); **H05K 1/02** (2006.01); **H05K 1/11** (2006.01)

CPC (source: CN EP KR US)  
**H01B 7/08** (2013.01 - EP KR US); **H01M 10/425** (2013.01 - CN EP KR US); **H01M 10/4285** (2013.01 - CN); **H01M 10/482** (2013.01 - CN EP KR US); **H01M 50/503** (2021.01 - CN EP KR US); **H05K 1/028** (2013.01 - EP KR US); **H05K 1/118** (2013.01 - EP KR US); **H01M 10/486** (2013.01 - CN EP US); **H01M 2010/4271** (2013.01 - US); **H01M 2220/20** (2013.01 - KR); **H01R 12/59** (2013.01 - US); **H01R 12/592** (2013.01 - US); **H01R 12/61** (2013.01 - US); **H01R 12/771** (2013.01 - US); **H01R 31/06** (2013.01 - US); **H01R 35/00** (2013.01 - US); **H01R 35/025** (2013.01 - US); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)

- [X] DE 19819088 A1 19991104 - KOSTAL LEOPOLD GMBH & CO KG [DE]
- [X] US 4065199 A 19771227 - ANDRE MICHAEL G, et al
- [X] EP 1153801 A2 20011114 - YAZAKI CORP [JP]
- [XA] US 2017271642 A1 20170921 - GROSHERT JAN [DE], et al
- [X] EP 2128912 A2 20091202 - MAKITA CORP [JP]

Cited by  
EP4125308A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3499632 A1 20190619**; CN 109994697 A 20190709; CN 109994697 B 20230428; DE 102017222883 A1 20190619; JP 2019114535 A 20190711; JP 7277123 B2 20230518; KR 20190072449 A 20190625; US 10923773 B2 20210216; US 2019190084 A1 20190620

DOCDB simple family (application)  
**EP 18212171 A 20181213**; CN 201811532058 A 20181214; DE 102017222883 A 20171215; JP 2018232484 A 20181212; KR 20180160628 A 20181213; US 201816220840 A 20181214